

Electric motor having electronic commutation with improved structure

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Abstract

This motor consists of, among other things a casing with a body, flanges (12) with at least one bearing, a shaft (20), a wound rotor (30), commutation means with a connector consisting of an insulating support (410) carried by the rotor (30) and contactors (411) equipped with terminals (412) for receiving the ends (321) of the wires (320) of the coils (32) and studs (413) each intended to come into contact with counter-studs of a printed circuit and with a control module formed by a substrate which carries this printed circuit with components including therein power components of electronic circuits and which is in close contact against the inner face of a flange (12). This insulating support (410) is mounted on this shaft (20), this insulating support (410) and this shaft (20) are equipped with an indexing device (60) which allows only a single orientation in rotation while allowing relative axial sliding of these insulating supports (410) and shaft (20) and this relative axial sliding is possible at least up to the end of the operation for fixing the ends (321) of the wires (320) of the windings (32) to the terminals (412). Application to electric motors for motor cars.



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